

Seat No.: \_\_\_\_\_

# THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

## DEPARTMENT OF COMPUTER APPLICATIONS

### Program: Bachelor of Computer Applications

Semester-I End Semester Examination (Practical)

Date: 15-10-2019

Day: Tuesday

Duration: 10:15AM- 11:15AM

BCA1112C04 Introduction to Programming using Python Lab

Marks: 40

Batch-B

### INSTRUCTIONS:

1. Attempt all.
2. In the beginning of each file, write the program objective, name of programmer, date of program creation, programming language and version of program.
3. Name your variables appropriately.
4. Add comments whenever necessary. Functions should have doc string.
5. Write pythonic code.

## SET B

**Q1.**

**(20)**

Write a program that performs the following operations using appropriate functions on a list.

- a) Add Single Element to The List
- b) Add Elements of a List to Another List
- c) Inserts Element to The List
- d) Removes Element from the List
- e) returns smallest index of element in list
- f) returns occurrences of element in a list
- g) Removes Element at Given Index
- h) Reverses a List
- i) sorts elements of a List
- j) Removes all Items from the List

**Q2.**

**(10)**

Write a function numPattern() that prints the following pattern as per the following condition:

If called without a parameter prints just for 1-5.

If called with a number n, it prints for numbers 1-n.

If called with a number m and a number n, it prints from number m-n if  $m < n$  else n-m.

The Pattern to print is:

```
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
```

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**Q3.**

**(10)**

Write a program to demonstrate the use of positional arguments, keyword arguments, default arguments and variable length arguments (\*vargs).

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